



**Purpose:**

Big Ox Energy-Siouxland, LLC (BOE) manages the receipt, handling, and processing of hauled material received at its South Sioux City, Nebraska biogas manufacturing plant in accordance with this Hauled Material Acceptance Plan ("Plan"). This plan ensures that only BOE only receives material that is compatible for treatment and reduces potential impacts to the operation of the City of Sioux City Wastewater Treatment Plant (WWTP).

BOE refuses and avoids materials that would cause its biogas manufacturing process to function improperly (thus limiting its production of commercial sellable product (biogas)). BOE refuses and avoids materials that inhibits BOE's onsite anaerobic treatment process or affect BOE's discharge compliance with Sioux City Wastewater Discharge Permit #2016-31-I

**Material Acceptance Criteria:**

BOE receives organically based and biodegradable truck-hauled waste materials ("hauled materials") under contract, primarily food processing materials on an as required (random) basis. BOE distinctly approves and accepts every customer and every hauled material type. BOE requires that every customer submit a request to deliver hauled material using a Material Profile Form ("MPF"). The MPF specifies hauled material information including estimated volume, chemical analysis, a Safety Data Sheet (if applicable), or data from a material stream similar in nature to the one proposed for disposal. BOE reviews the customer's signed MPF to ensure the hauled material is free of toxic/hazardous materials and is compatible for treatment with BOE biogas operation.

BOE also independently tests the customer's material in its own laboratory to verify hauled material content prior to approval. Following approval by BOE, the customer is returned a signed and approved copy of the MPF specifying the type and amount of hauled material which BOE will accept. BOE then issues the customer a Master Service Agreement ("MSA"). BOE retains documentation of all delivered hauled materials including date(s) of receipt, load point of origination, material characteristic's, and the amount received for at least 3 years.

All hauled material loads received at BOE must have a Chain of Custody (COC) signed by the generator of the material stating that the material being delivered has not deviated from the material approved for disposal and treatment and that it does not contain hazardous or toxic material. All discharge data is tracked on the COC and in the facility's data tracking system including the pH, temperature and volume of the load delivered.

**Verification Testing:**

BOE performs independent sampling and analysis of hauled materials to verify that received loads have the same characteristics as specified in the MSA. If independent analysis indicates deviation from the approved MPF, the material shall be rejected for treatment until such time that a new MPF and MSA are effective. If a new MSA cannot be agreed upon then the acceptance shall be terminated indefinitely.

**Material Treatment:**

Hauled materials are blended for anaerobic digestion. Once accepted and processed, BOE dewateres the resulting sludge for third party disposal. BOE blends the dewatered centrate with influent industrial/sanitary wastewater, neutralizes the blend and removes solids prior to discharge to the sanitary sewer for conveyance to the Sioux City WWTP.

**Material Being Accepted:**

Gelatin Bone Residue  
Gelatin Sludge and DAF Solids Floats and Solids  
Teff Grass  
Pet Food Sludge  
Paunch/Manure  
Slaughterhouse Flashings  
Slaughterhouse Sludge and DAF Floats and Solids  
Dairy Material  
Municipal Wastewater/Sludge  
Food Syrup

Soy Gums  
Scrap Bakery and Brewery Yeast  
Tannery Solids  
Diatomaceous Earth  
Food Producer DAF Floats and Solids  
Bean Wash water  
Egg Slurry  
Stillage  
Food Service Establishment Material  
Delactose Permeate

**Certification:**

Based upon my inquiry of the staff and the personnel directly responsible for the preparation of this document and for meeting the criteria of the Hauled Material Acceptance Plan, I certify that the information in it is, to the best of my knowledge; true, accurate, and complete. Big Ox Energy Siouxland, LLC will abide by the provisions of the Hauled Material Acceptance Plan.



Desiree McCaslen, Director of Regulatory Compliance

8/30/17  
Date

Attachment #1    Material Profile Form

Attachment #2    Chain of Custody



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**Part I - Industrial Generator Information**

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Description of Source of Waste: \_\_\_\_\_

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**Part II - Generator Certification**

"I hereby certify, to the best of my knowledge, that the wastewater described above does not contain hazardous waste or toxic materials as defined by Federal, State, or Municipal Code, for the waste approved by Big Ox Energy as part of the Master Service Agreement (MSA) for acceptance and treatment at Big Ox Energy. I further certify that the information listed is true and accurate and the waste being delivered has not deviated in pollutant concentration from the waste approved in the MSA."

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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**Part III - Carrier/Truck Information**

Carrier: \_\_\_\_\_ Truck #: \_\_\_\_\_ Trailer #: \_\_\_\_\_

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**Part IV - Scale House/Acceptance Criteria**

Date: \_\_\_\_\_ Time In: \_\_\_\_\_ AM/PM Time Out: \_\_\_\_\_ AM/PM

Full Weight: \_\_\_\_\_ lbs. Temperature Upon Delivery: \_\_\_\_\_ ° C

Empty Weight: \_\_\_\_\_ lbs. pH upon Delivery: \_\_\_\_\_ s.u.

NET Weight: \_\_\_\_\_ lbs. Scale Ticket #: \_\_\_\_\_

Incoming Seal # Top: \_\_\_\_\_ Incoming Seal # Back: \_\_\_\_\_

Outgoing Seal # Top: \_\_\_\_\_ Outgoing Seal # Back: \_\_\_\_\_

P.O. #: \_\_\_\_\_ Big Ox Employee: \_\_\_\_\_

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Big Ox Energy will accept the above listed waste for disposal and treatment under the following conditions:

1. The wastewater does not contain any hazardous materials.
2. The waste must be consistent with the waste approved for disposal and treatment, any deviation from the approved waste may result in refusal of treatment.
3. This Chain of Custody must be signed by an authorized representative of the company (Industrial Generator).







REQUESTED FACILITY: \_\_\_\_\_

**Generator Information (Material Origin)**

Name:			
Current address:			
City:		State:	ZIP Code:
Contact Name:	Contact Email:		Phone:
Generator EPA ID:			State ID:

**Billing Information**

Same as Generator?		Contact Name:	
Billing Name:		Billing Address:	
City:	State:	ZIP Code:	
Phone:	E-mail:	Fax:	
Hauler Name:	PO# :	Payment Method: Account / Cash / Credit Card	

**Material Information**

Common Name:			
Describe Process Generating Material:			
Material Composition:		State Code:	Color:
Physical State: Solid / Liquid / Other	Free Liquid %:	pH:	
Strong Odor: Yes / No Describe:		Flash Point:	
Analytical Attached:		SDS Attached: Yes / No	

**Regulatory Information**

Facility SIC/NAICS Code:	Permitted under 40 CFR 403: Yes / No	Categorical Industrial User: Yes / No
Pretreatment of Wastewater: Yes / No	Classified as Hazardous Waste: Yes / No	
Please attach a list of chemicals used or stored onsite that could affect the integrity of the material being disposed of.		
Current disposal method:		

**Shipping Information**

One time event:	Repeat or On-going:
Estimated Quantity Per event or Week:	Unit of Measure: Tons / Pounds / Gallons / _____
Delivery Type: (trailer/container)	USDOT Shipping Name:

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I authorize the verification of the information provided on this form as to my credit and employment. I have received a copy of this application.

Name (Print):		Date:
Title:	Company:	
Signature:		

